	Application No.	Applicant(s)
No. 41 P. A.H	10/820,320	WU ET AL.
Notice of Allowability	Examiner	Art Unit
	Thinh T. Nguyen	2818
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to $\frac{3}{2005}$		
2. The allowed claim(s) is/are <u>13-24</u> .		
 3. ☐ Acknowledgment is made of a claim for foreign priority uner a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		
Certified copies of the priority documents have Certified copies of the priority documents have		
Copies of the certified copies of the priority documents have		
International Bureau (PCT Rule 17.2(a)).	cuments have been received in this	national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawir ne header according to 37 CFR 1.121(d	ngs in the front (not the back) of d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. T Notice of Informal P	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat 8), 7. ⊠ Examiner's Amendn	te nent/Comment
Paper No./Mail Date <u>5/19/2004</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	<u></u>	ent of Reasons for Allowance
of Biological Material	9.	
David Nelms		
Supervisory Patent Examiner Technology Center 2800		

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DETAILED ACTION

Examiner's Amendment.

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

A/ As per authorization from the Applicants ' legal representative on line 1 of claim 13 delete -- Second embodiment --

B/ Cancels claims 1-12 and 25-28.

2. Claims 13-24 are pending in the application.

Reason for allowance

3. Claims 13-24 are allowed.

The following is an examiner's statement of reason for allowance: None of the references of record teaches or suggests the claimed **WHOLE CHIP ESD PROTECTION** having the limitations:

-- " a resistor plus NMOS FET first mid stage connected between Vcc and Vss (ground),

a second mid-stage containing a second NMOS FET connected between input stage and ground, and

a PMOS FET plus NMOS FET output stage connected between Vcc and Vss (ground) whose input connects from the mid stages and whose output drives an unused I/0 pad. "--

And all other limitations as recited in claim 13.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lee et al. (US patent 5,157,573) discloses an ESD protection circuit with segmented buffer transistor

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5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thinh T Nguyen whose telephone number is 571-272-

1790. The examiner can normally be reached on Monday-Friday 9:30am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Nelms can be reached at 571-272-1787.

The fax phone number for the organization where this application or proceeding

is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval [PAIR] system.

Status information for published applications may be obtained from either Private

PAIR or Public PAIR. Status information for unpublished applications is available

through Private PAIR only. For more information about the PAIR system, see http://pair-

direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll) free)

Thinh T Nguyen

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David Nelms

Supervisory Patent Examiner

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